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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,605	08/18/2005	Takehiro Miwa	Q87625	9927
23373 SUGHRUE MI	7590 03/17/200 ON, PLLC	EXAMINER		
2100 PENNSYLVANIA AVENUE, N.W.			ARIANI, KADE	
	SUITE 800 WASHINGTON, DC 20037		ART UNIT	PAPER NUMBER
			1651	
			MAIL DATE	DELIVERY MODE
			03/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/532,605	MIWA ET AL.		
Office Action Summary	Examiner	Art Unit		
	Kade Ariani	1651		
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the c	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY OF THE MORE OF T	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 12/0 2a) This action is FINAL . 2b) Th Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-20 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examination of the drawing(s) filed on is/are: a) and according to a size and according to the application of the drawing(s) filed on is/are: a) according to the application of the above claim(s) is/are withdressed on the application of the applic	awn from consideration. or election requirement.	Examiner.		
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate		

DETAILED ACTION

The amendment filed on December 04, 2007, has been received and entered.

Claims 1-20 are pending in this application and were examined on their merits.

Election/Restrictions

Applicant's election with traverse of Group I claims 1-3, 5, 6, 8, 13-18, and 20 in the reply is acknowledged. The traversal is based on the relationship of claim 4 (Group III) to claims 1 (Group I), in that regard Applicant has amended claim 4 to clarify the relationship and make it dependent on claim 1.

The traversal is based on the ground that the not only the method of claims 6, 17, 18, and 22, but also the method of claims 9-11 are in vitro.

Upon reconsideration, the requirement for restriction is withdrawn.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 7 provides for the use of an enzyme, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant

is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim 7 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products*, *Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102 (b), as being anticipated by Olsen et al. (WO98/30682-A1).

Claims 1- 5 are directed to an agent comprising as an active ingredient an enzyme, and the enzyme is an enzyme comprising the amino acid sequences of SEQ ID NO: 2.

Olsen et al. disclose an enzyme comprising the amino acid sequences of SEQ ID NO: 2, and a modified enzyme composition.

Olsen et al. do not disclose the properties of the enzyme. However, the claimed enzyme (active ingredient) appears to be the same to that of the prior art, therefore, it must have the same physical, chemical, and catalytic properties.

Olsen et al. therefore clearly anticipate the claimed agent.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shih et al. (US2002/0172989 A1) and Olsen et al. (WO 98/30682-A1).

Claims 1-20 are drawn to an agent comprising as an active ingredient an enzyme, the enzyme is an enzyme comprising the amino acid sequences of SEQ-ID NO: 2, a method for digesting a protein highly resistant to denaturation and degradation (a pathogenic prion protein) comprising the step of bringing the protein into contact with the agent, without preheating the subject at 90°C.

Art Unit: 1651

Shih teach a method for digesting of infectious prion proteins comprising the step of bringing the protein into contact with an agent, the enzyme is derived from *Bacillus licheniformis* (Abstract, Page 1 0002, 0006,0010, and Page 3 0054), and without preheating the subject at 90°C (page 2 0031).

Shih teach the proteolytic enzyme be of any suitable type it will be recognized that any of a wide variety of proteases may be employed in the practice of the invention, and that the choice of specific proteolytic enzyme will affect he choice of temperature that is used to carry the proteolytic degradation, as well as the choice of any elevate temperature treatment of the tissue before its exposure to the proteolytic enzyme (Page 3, 0046).

Shih further teach proteolytic enzymes include keratinase enzymes, subtilisin, and active fragments of a keratinase enzyme (Page 3 0053-0054).

Shih does not teach an enzyme comprising the amino acid sequences of SEQ ID NO: 2. However, Olsen et al. teach subtilisin, an enzyme comprising the amino acid sequences of SEQ ID NO: 2.

Moreover, Shih teach the method achieves a substantial advance in the art, permitting nutritional use of a material that would otherwise, in the absence of the treatment, constitute a biological hazard, and to avoid costs and infrastructure requirements for incineration and disposal of infected or contaminated animal tissue (page 4 0071).

Art Unit: 1651

Therefore, it would have been obvious to one of ordinary skill in the art to combine the above teachings and to use the enzyme (subtilisin) as taught by Olsen et al. in the composition and the method of Shih to provide an agent and the method for digesting a pathogenic prion protein(a protein highly resistant to denaturation and degradation). The motivation for the combination would be to increase the degrading capacity of the enzyme composition, and thus permitting nutritional use of a material that would otherwise, in the absence of the treatment, constitute a biological hazard, and to avoid costs and infrastructure requirements for incineration and disposal of infected or contaminated animal tissue.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kade Ariani whose telephone number is (571) 272-6083. The examiner can normally be reached on 9:00 am to 5:30 pm EST Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on (571) 272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 7

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/Leon B Lankford Jr/
Primary Examiner, Art Unit 1651

Kade Ariani Examiner Art Unit 1651 Leon B. Lankford Jr. Primary Examiner Art Unit 1651